

WHAT IS CLAIMED IS:

1. A system, comprising:
- 5 a distributed store comprising a primary state of session data configured for access by a plurality of application servers, wherein the session data comprises a plurality of attributes; and
- 10 a first application server of the plurality of application servers, comprising a client state of the session data accessible to processes executing within the application server, wherein the first application server is configured to track accesses of the attributes of the client state;
- 15 wherein the distributed store is configured to synchronize the primary state with the client state according to the tracked accessed attributes.
2. The system as recited in claim 1, wherein, to track accesses of the attributes of the client state, the first application server is configured to store information identifying the accessed attributes.
- 20 3. The system as recited in claim 1, wherein, to track accesses of the attributes of the client state, the first application server is further configured to track mutable attributes.
- 25 4. The system as recited in claim 1, wherein, to synchronize the primary state with the client state, the distributed store is further configured to synchronize only mutable attributes.
- 30 5. The system as recited in claim 1, wherein the first application server is configured to perform a comparison of the tracked accessed attributes and a benchmark of

the session data comprising a previous version of the one or more attributes to determine a subset of the tracked accessed attributes that are modified in respect to the benchmark of the session data; and wherein, to synchronize the primary state with the client state, the distributed store is configured to update the primary state with the subset of the accessed attributes that have been modified.

6. The system as recited in claim 5, wherein, in said comparison, the first application server is configured to perform a binary comparison of the tracked accessed attributes and the benchmark of the session data to determine a subset of the tracked accessed attributes that are modified in respect to the benchmark of the session data.

7. The system as recited in claim 5, wherein, in said comparison, the first application server is configured to perform an object graph comparison of the tracked accessed attributes and the benchmark of the session data to determine a subset of the tracked accessed attributes that are modified in respect to the benchmark of the session data.

8. A system comprising:

a distributed store means comprising a primary state of session data configured for access by a plurality of application servers, wherein the session data comprises one or more attributes;

a first application server of the plurality of application servers comprising a client state of the session data;

means for tracking accesses of the attributes in the client state, coupled to or within the first application server; and

means for synchronizing the primary state with the client state according to the

provided accessed attributes.

9. A method comprising:

5 tracking accesses of attributes in a client state of session data on a first application server, wherein the session data is accessible to one or more processes executing within the application server; and

synchronizing a primary state of the session data with the client state by applying
10 the tracked accessed attributes to the session data of the primary state, wherein the primary state is configured for access by a plurality of application servers including the first application server.

10. The method as recited in claim 9, wherein said tracking comprises the first
15 application server maintaining information identifying the accessed attributes.

11. The method as recited in claim 9, further comprising storing the primary state in a distributed store accessible to the application servers.

20 12. The method as recited in claim 9, further comprising determining differences between the tracked accessed attributes and a benchmark of the session data comprising a previous version of the one or more attributes to detect a subset of the accessed attributes that have been modified; wherein, said synchronizing comprises applying only the subset of accessed attributes that have been modified to the session data
25 of the primary state.

13. The method as recited in claim 12, wherein said determining differences comprises performing a binary comparison of the tracked accessed attributes to the benchmark of the session data.

30

14. The method as recited in claim 12, wherein said determining differences comprises performing an object graph comparison of the tracked accessed attributes to the benchmark of the session data comprising a previous version of the one or more attributes.

5 15. An article of manufacture comprising software instructions executable to implement:

tracking accesses of attributes in a client state of session data on a first application
10 server, wherein the session data is accessible to one or more processes executing within the application server; and

synchronizing a primary state of the session data with the client state by applying
the tracked accessed attributes to the session data of the primary state,
15 wherein the primary state is configured for access by a plurality of application servers including the first application server.

16. The article of manufacture as recited in claim 15, wherein said tracking
comprises the first application server maintaining information identifying the accessed
20 attributes.

17. The article of manufacture as recited in claim 15, wherein the primary
state is comprised in a distributed store.

25 18. The article of manufacture as recited in claim 15, wherein the software instructions are further executable to implement determining differences between the tracked accessed attributes and a benchmark of the session data comprising a previous version of the one or more attributes to detect a subset of the accessed attributes that have been modified; wherein said synchronizing comprises applying only the subset of
30 accessed attributes that have been modified to the session data of the primary state.

19. The article of manufacture as recited in claim 18, wherein said determining differences comprises performing a binary comparison of the tracked accessed attributes to the benchmark of the session data comprising a previous version of the one or more attributes.

5

20. The article of manufacture as recited in claim 18, wherein said determining differences comprises performing an object graph comparison of the tracked accessed attributes to the benchmark of the session data comprising a previous version of the one or more attributes.

10

10087197.030103